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MONTHLY PROGRESS REPORT  
For May 1973

E7.3 108.78  
CR-133495

Title of Investigation:

An Interdisciplinary Analysis of Multispectral Satellite  
Data for Selected Cover Types in the Colorado Mountains, using  
Automatic Data Processing Techniques.

Principal Investigator: R. M. Hoffer  
SKYLAB EREP 398  
Contract No.: NAS 9-13380

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Springfield, VA. 22151

A. Overall Status and Progress to Date

A.1 The difficulties encountered during and after the  
launch of SL-1 also caused problems on the principal investigator  
level. Because the orbit of SKYLAB is tracking 60 miles west  
of where it was originally intended to be, only the southwestern  
corner of Test Site 804293 will have data collected by the S-192.  
We have therefore selected an alternate test site located in the  
southwestern portion of 804293 and extending westward. This  
area is acceptable for study by all four disciplines as specified  
in the proposal.

A.2 This relocation has caused us to re-evaluate our  
proposed milestone plan. Consequently the milestone plan cannot  
be submitted for approval by the June 15 deadline, but will be  
forwarded to NASA as soon as possible.

A.3 D. Keammerer, P. Krebs and S. Rudd of INSTAAR visited  
LARS during the week of May 14-18 in conjunction with present  
ERTS-A research. Discussions were also held concerning the  
collection of ground truth during SL-2.

B. Recommendations

B.1 Again we wish to stress the importance of doing  
preliminary analysis on S-192 data from SL-2 before our EREP  
pass for SL-3. This necessitates our receiving the data as soon  
as possible after the splashdown of SL-2.

B.2 LARS and INSTAAR have received data from the San Juan  
Mountains (Test Site 804293) from ERTS and have done extensive  
analysis on it. The present orbit of SKYLAB allows for only  
minimal coverage of the proposed test by the EREP sensors. More  
important is the fact that the imagery that will be received  
from SL-2 will include only a small portion of mountainous areas.  
For the above reasons it is our recommendation that the SKYLAB  
be placed in an orbit as it was originally intended to be.

E73-10878) AN INTERDISCIPLINARY ANALYSIS  
OF MULTISPECTRAL SATELLITE DATA FOR  
SELECTED COVER TYPES IN THE COLORADO  
MOUNTAINS, USING AUTOMATIC DATA PROCESSING  
(Purdue Univ.) 2 p HC \$3.00 CSCL 08B

N73-29229

Unclas  
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2 p 8

B.3 INSTAAR has indicated a need for duplicate aircraft photography for use as ground truth. A formal request was made by Dr. R. Hoffer, PI, May 30, 1973 in a letter to Dr. R. Hicks.

C. Expected Accomplishments

C.1 Photographic data and thermal measurements from a PRT-10 will be taken from a small aircraft during our SL-2 EREP pass. Kinetic temperature and turbidity data will also be collected from Lemon and Vallecito Reservoirs to compare with the S192 data.

D. Significant Results

D.1 There are no significant results to report to date.

E. Summary Outlook

E.1 A preliminary data analysis sequence (quick-look) will be utilized as soon as the S192 data is received.

E.2 Plans for ground truth collection for SL-3 are dependent on a confirmed launch data and EREP pass date.

F. Travel Summary

F.1 S. G. Luther of LARS was in the test site vicinity to collect ground truth on May 30, 1973 awaiting the EREP pass.